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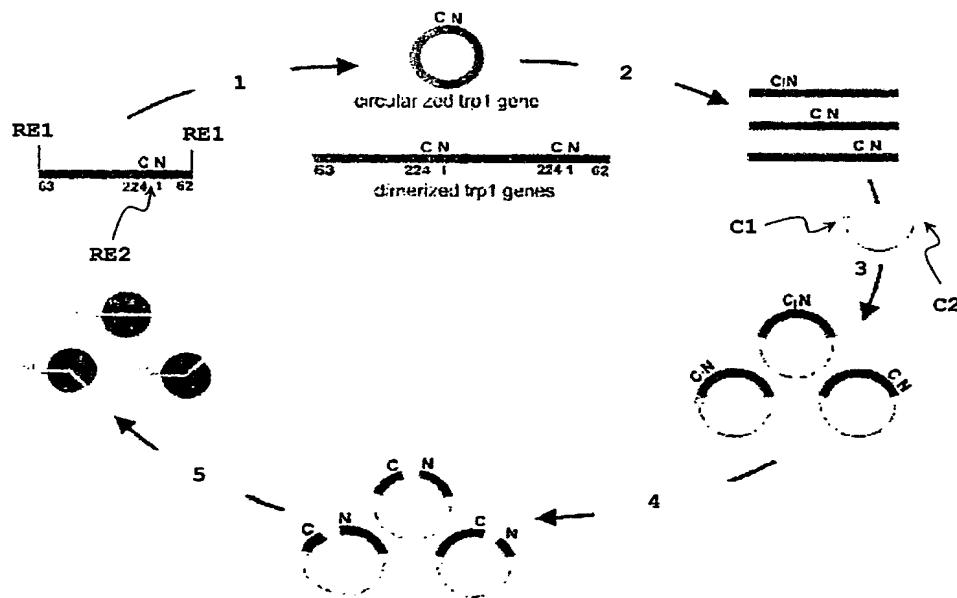
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(54) Title: METHOD FOR IDENTIFICATION OF SUITABLE FRAGMENTATION SITES IN A REPORTER PROTEIN



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(57) Abstract: The invention concerns a combinatorial method for the generation of new split-protein sensors, and its application towards the $(\beta/\alpha)_8$ -barrel enzyme N-(5'-phosphoribosyl)-anthranilate isomerase Trp1p from *Saccharomyces cerevisiae* is demonstrated. The generated split-Trp protein sensors allow for the detection of protein-protein interactions in the cytosol as well as the membrane by enabling *trp1* cells to grow on medium lacking tryptophan. This powerful selection thus complements the repertoire of the currently used split-protein sensors and provides a new tool for high-throughput interaction screening.



— *with amended claims*

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